

TDMA-TDD BASIC FRAME IN 3GPP AND TSM CELLULAR SYSTEMS

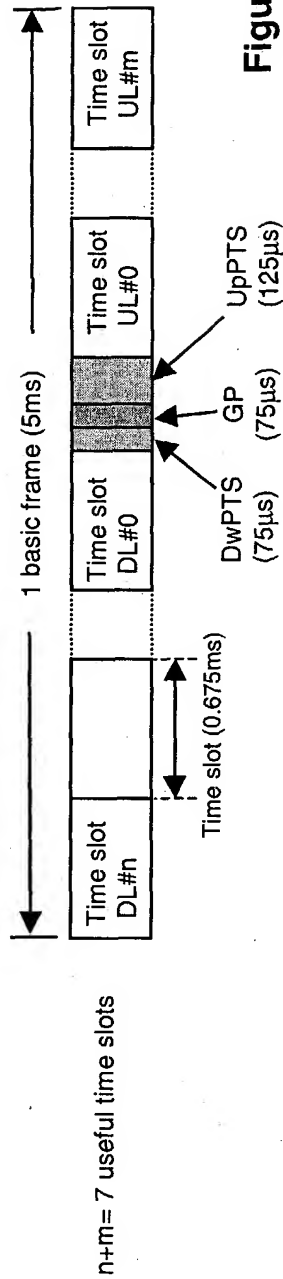


Figure 1

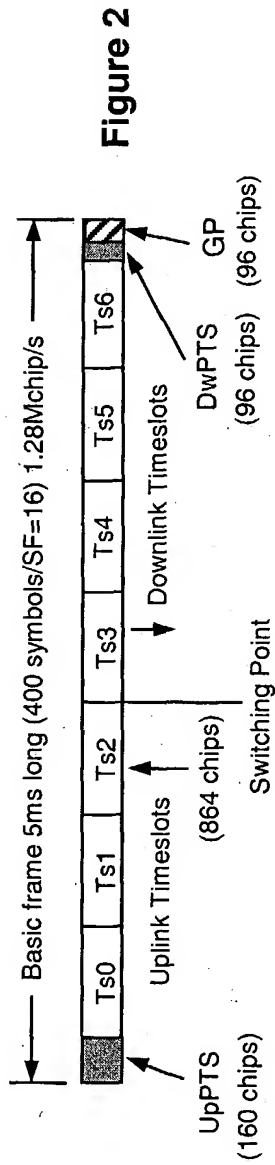


Figure 2

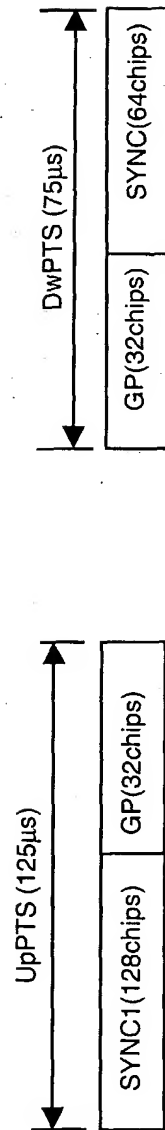


Figure 3

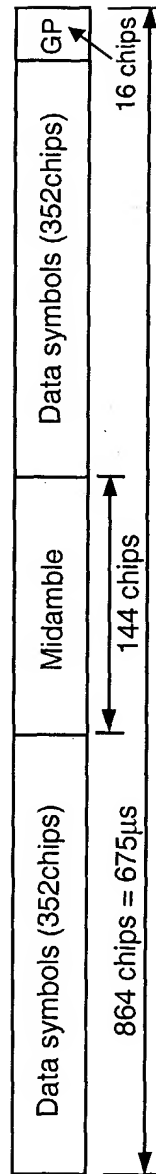


Figure 4

POSSIBLE CONFIGURATION OF LGIC AND PHYSIC CHANNELS IN 3GPP AND TSM CELLULAR SYSTEMS

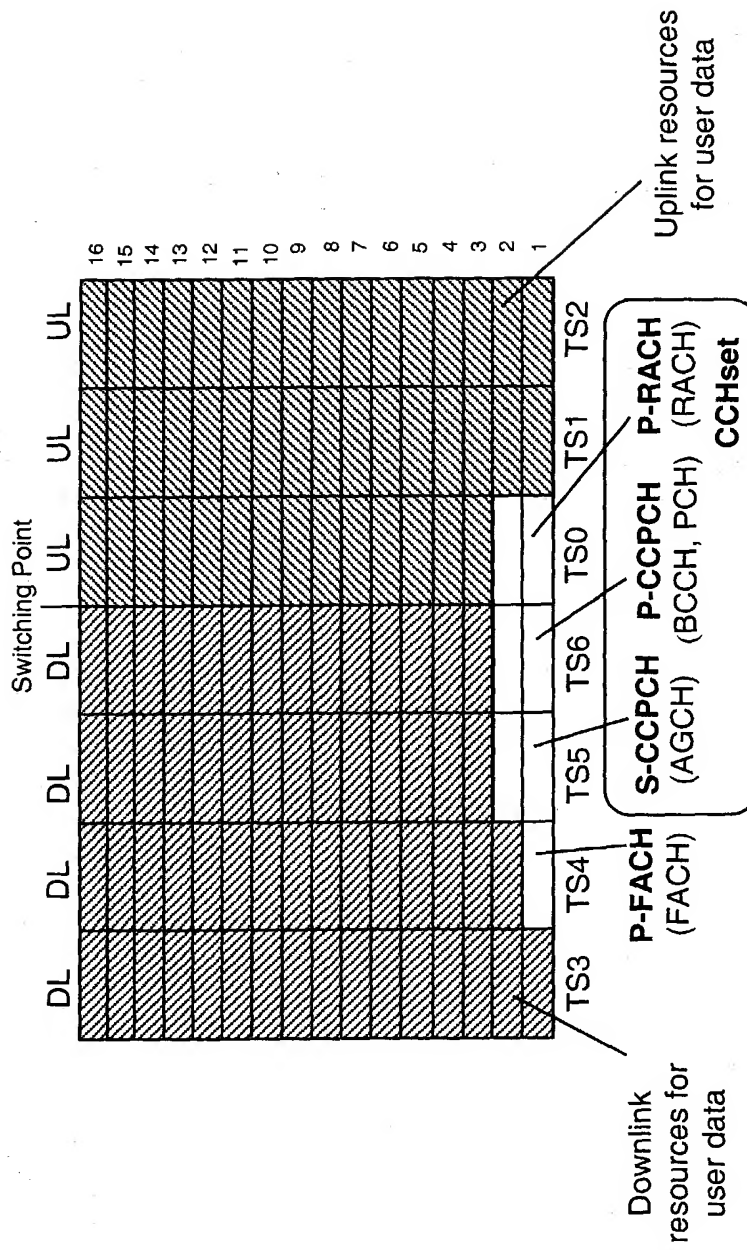


Figure 6

Figure 7: Example of sub-frame occupancy for RACH procedure in TSM mode

sub-frame Number	0	1	2	3	4	5	6	7	8	9
Users/sent signatures	1	4			6					
	2									
	3									
	4									
	5									
Acknowledged user		1	2	3	4	6				
User sending RACH				1	2	3	4	6	-	-

Figure 8: Example of sub-frames occupancy for configuration 1 in 3GPP

sub-frame Number	0	1	2	3	4	5	6	7	8	9
Users/sent signatures	1	4								
	2									
	3									
Acknowledged user		1	2	3	4					
User sending RACH			1	1	2	2	4	4		
					3	3				

Figure 9: Example of sub-frames occupancy for configuration 2 in 3GPP

sub-frame Number	0	1	2	3	4	5	6	7	8	9
Users sending on UpPCH	1			4	5					
	2									
	3									
Acknowledged user		1	2	3	4	5				
User sending RACH			1	1	2	2	4	4		
							5	5		

Figure 10: Example of sub-frames occupancy for configuration 3 in 3GPP

Sub-frame Number	0	1	2	3	4	5	6	7	8	9
Users sending on UpPCH	1		4		5					
	2									
	3									
Acknowledged user		1	2	3	4	5	5			
User sending RACH			1	1	2	2	4	4		
							5	5		

Figure 11: Example of sub-frames occupancy for configuration 4 in 3GPP

sub-frame Number	0	1	2	3	4	5	6	7	8	9
Users sending on UpPCH	1 2 3				4 5					
Acknowledged user		1	2	3		4	5			
User sending RACH			1	1 2	2		4	4 5	5	

Figure 12: Example of sub-frames occupancy for configuration 5 in 3GPP

sub-frame Number	0	1	2	3	4	5	6	7	8	9
Users sending on UpPCH	1 2 3				4 5					
Acknowledged user		1	2	3		4	5			
User sending RACH			1	1	2	2	4	4	5	5